



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7504P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460-0001

EPA Reg. Number:

53883-322

Date of Issuance:

JUL 2 2013

NOTICE OF PESTICIDE:

X Registration
Reregistration
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

CSI PY-PBO 0.5-5 Fogging Concentrate

Name and Address of Registrant (include ZIP Code):

Control Solutions, Inc.
5903 Genoa-Red Bluff
Pasadena, TX 77507-1041

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with section 3(c)(5) of FIFRA provided that you:

- 1. Submit and/or cite all data required for registration of your product under section 3(c)(5) of FIFRA when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under section 4 of FIFRA.

(continued on page 2)

Signature of Approving Official:

See page #5.

Richard J. Gebken, Product Manager (10)
Insecticide Branch, Registration Division (7504P)

Date:

JUL 2 2013

2. Make the following change(s) to the label:

- a. Change the product registration number to "EPA Reg. No. 53883-322"
- b. Make the following label revision(s):

General Statements:

- 1. Delete all text throughout the subject label that is marked with "~~strike through~~."

Efficacy Review comment(s):

- 2. Based upon review of the cited efficacy (product performance) data, the efficacy claims on the subject label are adequately supported, and thus acceptable, with two (2) exceptions. As such, you must make the following changes:
  - The mosquito adulticide data support the labeled rates for ground ULV adulticiding; however, no data were cited for aerial applications. Therefore, aerial adulticiding applications must be removed from the subject label.
  - Data were not cited nor submitted for the following public health pests: Fire ants, general claim for cockroaches, House flies, general claim for spiders, and a general claim for ticks. Therefore, these insect pests must be removed from the subject label, including all related claims.

First Aid section comment(s), bottom of page 1 of 10:

- 3. To facilitate inclusion of label changes from the Agency's Label Review Manual, revise the 2<sup>nd</sup> sentence within the existing "HOT LINE NUMBER" subsection to read "For additional information on this product (including health concerns, medical emergencies or pesticide incidents), you may call the National Pesticide Information Center at 1-800-858-7378, Monday through Friday from 7:30 AM to 3:30 PM Pacific Time. After 3:30 PM Pacific Time and on weekends, call your poison control center."

Precautionary Statements, Hazards to Humans and Domestic Animals subsection comment(s), page 2 of 10:

- 4. To facilitate inclusion of required label changes from the acute toxicity review completed for this product, the Agency's Label Review Manual, the REDs for pyrethrins and piperonyl butoxide, and to be consistent with the comparison product for this application (ULD BP-50 Insecticide; EPA Reg. No. 499-453), you must revise this subsection to read "CAUTION: Contains petroleum distillates. Harmful if swallowed, inhaled, or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Causes moderate eye irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Wear long-sleeved shirt, long pants, shoes and socks, and gloves."

Personal Protective Equipment (PPE) subsection comment(s), top of page 2 of 10:

- 5. To facilitate inclusion of required label changes from the REDs for pyrethrins and piperonyl butoxide, you must make the following changes:
  - Insert the following text immediately preceding the "User Safety Requirements" subsection to read "See engineering controls for additional requirements."
  - Revise the "User Safety Recommendations" subsection to read:

**User Safety Recommendations**

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Precautionary Statements, Environmental Hazards Statement subsection comment(s), pages 2-3 of 10:

- 6. To facilitate inclusion of required label changes from the REDs for pyrethrins and piperonyl butoxide, you must make the following changes:
  - Within the existing "Terrestrial Uses:" subsection, revise the heading to read "Terrestrial Applications:" and within the 1<sup>st</sup> sentence of the 2<sup>nd</sup> paragraph, replace the word "of" with the word "or."
  - Revise the "Wide-Area Mosquito Adulticide Applications:" subsection to read:
 

"For Wide-Area Mosquito Adulticide Applications: This pesticide is toxic to aquatic organisms, including fish and invertebrates. Runoff from treated areas or deposition of spray droplets into a body of water may be hazardous to fish and aquatic invertebrates.

When applying as a wide area mosquito adulticide, before making the first application in a season, it is advisable to consult with the state or tribal agency with primary responsibility for pesticide regulation to determine if other regulatory requirements exist.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply when bees are visiting the treatment area, except when applications are made to prevent or control a threat to public and/or animal health determined by a state, tribal, or local health or vector control agency on the bases of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

When applying as a wide area mosquito adulticide, do not apply over bodies of water (lakes, rivers, permanent streams, natural ponds, commercial fish ponds, swamps, marshes or estuaries), except when necessary to target areas where adult mosquitoes are present, and weather conditions will facilitate movement of applied material away from the water in order to minimize incidental deposition into the water body.”

Directions for Use, USE RESTRICTIONS subsection comment(s), pages 3-4 of 10:

7. To facilitate inclusion of required label changes from the REDs for pyrethrins and piperonyl butoxide, you must make the following changes:

- Within the “**When Used Outdoors:**” subsection of the “**Use Restrictions**” subsection, you must:
  - Insert the following new bulleted use restrictions immediately following the existing 1<sup>st</sup> bulleted use restriction to read “This product is not for direct application to companion animals (dogs, cats, puppies, or kittens).”
  - Within the existing 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> bulleted use restrictions, revise all instances of the words “Except when applying as a wide-area mosquito adulticide, ...” to read “Except when applying as a ground-based wide-area mosquito adulticide, ...”
  - Revise the existing 7<sup>th</sup> bulleted use restriction to read “Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.”
  - Revise the existing 8<sup>th</sup> bulleted use restriction to read “When used outdoors around residential areas: All outdoor applications, if permitted elsewhere on this label, must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses, if allowed elsewhere on this label: (1) Applications to soil or vegetation, as listed on this label, around structures; (2) Applications to lawns, turf, and other vegetation, as listed on this label; (3) Applications to the side of a building, up to a maximum height of 3 feet above grade; (4) Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning, or other structure; (5) Applications around potential pest entry points into buildings, when limited to a surface band not to exceed one inch in width; and (6) Applications made through the use of a coarse, low pressure spray to only those portions of surfaces that are directly above bare soil, lawn, turf, mulch or other vegetation, as listed on this label, and not over an impervious surface, drainage or other condition that could result in run-off into storm drains, drainage ditches, gutters, or surface waters, in order to control occasional invaders or aggregating pests.”
- Within the “**When Used Indoors:**” subsection of the “**Use Restrictions**” subsection, you must:
  - Insert the following new bulleted use restrictions immediately following the existing 1<sup>st</sup> bulleted use restriction:
    - “Do not contaminate food or feedstuffs.”
    - “Do not use in aircraft cabins.”
    - “This product is not for use in outdoor residential misting systems (indoor or outdoor).”
  - Revise the existing 9<sup>th</sup> bulleted use restriction to read “Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.”

Directions for Use, Subsection-Specific comment(s), pages 4-5 of 10:

8. To facilitate inclusion of required label changes from the REDs for pyrethrins and piperonyl butoxide, make the following subsection-specific changes:

- Insert the following text immediately following the existing last sentence within the “**Space Spray:**” subsection to read “Vacate treated area and thoroughly ventilate before re-occupying.”
- Insert the following text immediately following the existing last sentence within the “**Space and Contact Spray:**” subsection to read “Vacate treated area and thoroughly ventilate before re-occupying.”
- Insert the following text immediately following the existing last sentence within the “**Spot Application:**” subsection to read “Vacate treated area and thoroughly ventilate before re-occupying.”
- Insert the following text immediately following the existing last sentence within the “**Linear Application Along Baseboards, ...**” subsection to read “Vacate treated area and thoroughly ventilate before re-

occupying.”

Directions for Use. Wide-Area Mosquito Control. USE RESTRICTIONS subsection comment(s). page 7 of 10:

9. To facilitate inclusion of required label changes from the REDs for pyrethrins and piperonyl butoxide, you must make the following changes:

- Revise the existing subsection header “Restrictions and Precautions” to read “Use Restrictions”
- Insert the following text immediately following the existing 1<sup>st</sup> bulleted use restriction:
  - “The maximum application rate for wide area mosquito adulticide applications is 0.0025 lbs pyrethrin/acre, or 0.025 lbs piperonyl butoxide/acre, whichever is lower. When targeting *Aedes Taeirorhynchus* and other difficult species applications may be made up to 0.008 lbs pyrethrin/acre/day, or 0.08 lbs piperonyl butoxide/acre/day, whichever is lower.”
  - “Do not apply more than 0.2 lbs pyrethrin/acre/year, or 2.0 lbs piperonyl butoxide/acre/year, whichever is lower, in any treated area More frequent treatments may be made to prevent or control a threat to public and/or animal health determined by a state, tribal, or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.”
- Within the existing 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> bulleted use restrictions, revise all instances of the words “Except when applying as a wide-area mosquito adulticide, ...” to read “Except when applying as a ground-based wide-area mosquito adulticide, ...”
- Within the existing 4<sup>th</sup> bulleted use restriction, replace the word “on” with the word “only.”
- Revise the existing 5<sup>th</sup> bulleted use restriction to read “This product is not for use in outdoor residential misting systems (indoor or outdoor).”

Directions for Use. Subsection-Specific comment(s). pages 8-9 of 10:

10. To facilitate inclusion of required label changes from the REDs for pyrethrins and piperonyl butoxide, make the following subsection-specific changes:

- Insert the following text statement immediately preceding the “Ground-Based Application:” subsection to read “WIND SPEED: Apply only when wind speed is greater than or equal to 1 mph.”
- Revise the “Ground-Based Application:” subsection to read:

“Ground-Based Application: To kill adult mosquitoes and biting flies, apply up to 0.0025 pounds of pyrethrins per acre. Spray equipment must be adjusted so that the volume median diameter is less than 30 microns (Dv 0.5 < 30 µm) and that 90% of the spray is contained in droplets smaller than 50 microns (Dv 0.9 < 50 µm). Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.”

- Revise the “Aerial Application (Fixed Wing and Helicopter):” subsection to read:

“Aerial Application (Fixed Wing and Helicopter): To kill adult mosquitoes and biting flies, apply up to 0.0025 pounds of pyrethrins per acre with equipment designed and operated to produce a ULV spray application. Spray equipment must be adjusted so that the volume median diameter produced is less than 60 microns (Dv 0.5 < 60 µm) and that 90% of the spray is contained in droplets smaller than 80 microns (Dv 0.9 < 80 µm). The effects of flight speed, and for non-rotary nozzles, nozzle angle on the droplet size spectrum must be considered. Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a wind tunnel and laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.

RELEASE HEIGHT for AERIAL:

Fixed wing: Apply using a nozzle height of no less than 100 feet above the ground or canopy.

Rotary wing: Apply using a nozzle height of no less than 75 feet above the ground or canopy.”

Storage and Disposal section comment(s). page 9-10 of 10:

11. To facilitate inclusion of required label language from PR Notice 2007-4 and/or the Agency’s Label Review Manual, you must make the following changes:

- Revise all 3 instances of the existing “Pesticide Storage:” subsection to read “Store in a cool, dry (preferably locked) area that is inaccessible to children and animals.”
- For product in rigid, non-refillable containers less than or equal to 5 gallons, revise the last 3 sentences within the “Container Handling:” subsection to read “Offer for recycling if available or dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities.”

- For product in rigid, non-refillable containers greater than 5 gallons, revise the last sentence within the "Container Handling:" subsection to read "Offer for recycling if available or dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities."
- For product in rigid, refillable containers, revise the last sentence within the "Container Handling:" subsection to read "Repeat this rinsing procedure 2 more times. Offer for recycling if available or dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities."

Conditional Data Requirements:

12. Within one (1) year from the date of this registration, Control Solutions, Inc. is obligated to submit a One Year Storage Stability (830.6317) study and a Corrosion Characteristics (830.6320) study on this product in support of this registration.<sup>1</sup>
3. You must submit two (2) copies of the revised final printed labeling, incorporating the above changes, before releasing the product for shipment. If these conditions are not complied with, the registration will be subject to cancellation in accordance with section 6(e) of FIFRA. Your release for shipment of the product bearing amended labeling constitutes accepting of these conditions.

A copy of your label stamped "Accepted with Comments" is enclosed for your records along with hard copies of the acute toxicity, efficacy, and product chemistry reviews completed for this product. If you have any questions about this label review, please contact Mr. Carmen J. Rodia, Jr. at (703) 306-0327 or via e-mail at [Rodia.Carmen@epa.gov](mailto:Rodia.Carmen@epa.gov).

Sincerely yours,

  
 Richard J. Gebken  
 Product Manager (10)  
 Insecticide Branch  
 Registration Division (7504P)

Enclosures: *Label Stamped "Accepted with Comments," dated July 2, 2013*  
*Acute Toxicity Review, dated December 11, 2012*  
*Efficacy Review, dated June 25, 2013*  
*Product Chemistry Review, dated November 20, 2012*

053883-00322 D468847

<sup>1</sup> For more detailed information, please refer to page 4 of 4 of the product chemistry review completed for this product.

6/15

# CSI PY-PBO 0.5-5 Fogging Concentrate

{Select marketing claims from "Marketing Claims" section below}

**Active Ingredients:**

Pyrethrins (CAS No. 8003-34-7) .....	0.5%
Piperonyl butoxide* (CAS No. 51-03-6).....	5.0%

<b>Other Ingredients**</b> .....	<u>94.5%</u>
<b>Total</b> .....	<b>100.0%</b>

\*(butyl carbityl) (6-propylpiperonyl) ether and related compounds

\*\*Contains petroleum distillate

Contains 0.033 pound Pyrethrins per gallon

**Keep Out of Reach of Children**

### CAUTION

See back [side] panel for First Aid and additional Precautionary Statements

EPA Reg. No. 53883-\_\_\_ EPA Est. \_\_\_\_\_

Net Contents: \_\_\_Gallon(s)

ACCEPTED  
 With COMMENTS  
 In EPA Letter Dated:  
 July 21, 2013  
 Under the Federal Insecticide, Fungicide  
 and Rodenticide Act, As amended, for the  
 pesticide Registered under EPA Reg. No.:  
 53883-322.

{Back Panel}

### First Aid

<b>If Swallowed:</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or a doctor.</li> <li>• Do not give <b>any</b> liquid to the person.</li> <li>• Do not give <b>anything</b> by mouth to an unconscious person.</li> </ul>
<b>If on Skin or Clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Immediately rinse skin with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in Eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If Inhaled:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>Note to Physician:</b> Contains petroleum distillate; vomiting may cause aspiration pneumonia.	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact SafetyCall® International at (866) 897-8050 for emergency medical treatment information	

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans & Domestic Animals

**CAUTION:** Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Thoroughly wash with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

#### Personal Protective Equipment (PPE)

**Mixers, loaders, applicators and other handlers must wear:** Long-sleeved shirt, long pants, shoes and socks.

In addition to the above PPE, applicators using a high pressure handwand in an enclosed area must wear at least a NIOSH-approved respirator with a dust/mist filter with a MSHA/NIOSH-approval number prefix TC-21C or any N, R, P or HE filter.

In addition to the above PPE, applicators using hand held foggers in an enclosed area must wear a half-face, full-face or hood-style NIOSH-approved respirator with:

- a dust/mist filtering cartridge (MSHA/NIOSH-approval number prefix TC-21C) or
- a canister approved for pesticides (MSHA/NIOSH-approval number prefix TC-14G) or
- a cartridge or canister with any N, R, P or HE filter.

#### User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with the product's concentrate; do not reuse them.

#### Engineering Controls

Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(6)). Human flagging is prohibited. Flagging to support aerial application is limited to use of the Global Positioning System (GPS) for mechanical flaggers.

#### User Safety Recommendations

##### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Immediately remove clothing if pesticide gets inside; then thoroughly wash and put on clean clothing.
- Immediately remove Personal Protection Equipment after handling this product.
- Wash the outside of gloves before removing.
- As soon as possible, thoroughly wash and change into clean clothing.

*{Products labeled exclusively for indoor use may omit the following Environmental Hazards statements:}*

#### Environmental Hazards

**Terrestrial Uses:** This product is toxic to aquatic organisms, including fish and invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. This product may contaminate water through runoff. This product has a potential for runoff for several weeks after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product.

This product is highly toxic to bees exposed to direct treatment of blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

Except as specified in the directions for use, do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

**For Wide-Area Mosquito Adulticide Applications:** This product is toxic to aquatic organisms, including fish and invertebrates. Runoff from treated areas or deposition of spray droplets into a body of water may be hazardous to fish and aquatic invertebrates.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

Before making the first application in a season, it is advisable to consult with the state or tribal agency with primary responsibility for pesticide regulation to determining if other regulatory requirements exist.

Do not apply over bodies of water (lakes, rivers, permanent streams, natural ponds, commercial fish ponds, swamps, marshes or estuaries), except when necessary to target areas where adult mosquitoes are present, and weather conditions will facilitate movement of applied material away from the water in order to minimize incidental deposition into the water body. Do not contaminate bodies of water when disposing of equipment rinsate or washwaters.

**Physical or Chemical Hazards**

Do not use or store near heat or open flame. **Note:** Some furniture finishes and particularly plastics can be damaged by petroleum-based insecticides. To avoid damage, cover those items and do not spray directly. If in doubt, before fogging, test article by applying this material to an inconspicuous area then observe for undesirable effects.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**Use Restrictions**

**When Used Outdoors:**

- Apply this product only as specified on the label.
- Except when applying as a wide-area mosquito adulticide, do not enter or allow others to enter until sprays have dried.
- Except when applying as a wide-area mosquito adulticide, do not apply this product in a way that will contact workers or other persons, either directly or through drift.
- Except when applying as a wide-area mosquito adulticide, only protected handlers may be in the area during application.
- Do not make applications during rain.
- Do not water the treated area to the point of run-off.
- Do not apply directly into sewers or drains or to any area like a gutter where drainage to storm sewers, water bodies or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.
- When used outdoors around residential areas: all outdoor applications must be limited to only spot or crack-and-crevice treatment, except for applications to soil/vegetation around structures, to lawn, turf and other vegetation and to building foundations (up to a maximum height of 3 feet). Other than applications to building foundations, all outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches and structural surfaces (such as windows, doors and eaves) are limited to only crack-and-crevice applications.

**When Used Indoors:**

- Apply this product only as specified on the label.
- Remove pets, birds and cover fish aquariums before application.
- Remove or cover exposed food and drinking water before application.

- Remove or cover dishes, utensils, food processing equipment and food preparation surfaces, or wash them before use.
- Do not enter or allow others to enter until vapors, mists and aerosols have dispersed, and the treated area has been thoroughly ventilated.
- Do not remain in treated area. Immediately exit area and remain outside the treated area until aerosols, vapors and/or mists have dispersed.
- When used in dairy barns or facilities: Close milk tank lids to prevent contamination from spray and from dead or falling insects. Remove or cover milking utensils before application. Wash teats of animals before milking.
- When used indoors in food handling/processing facilities: Do not make space spray applications when facility is in operation. Prior to space spray applications cover or remove exposed food; cover food processing surfaces or clean after treatment and before use.
- Do not apply directly into sewers or drains or to any area like a gutter where drainage to storm sewers, water bodies or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.
- In hospitals, patients must be removed prior to treatment. The room must be ventilated for 2 hours after spraying. Do not return patients to room until after ventilation.

**Space Spray – Indoor:** To kill accessible, exposed stages of Cheese skippers, Flies (including Fruit flies), Gnats, Hornets, Mosquitoes, Small flying moths, Wasps and these common Stored product pests: Angoumois grain moths, Cigarette beetles, Confused flour beetles, Drugstore beetles, Grain mites, Granary weevils, Indian meal moths, Mediterranean flour moths, Meal worms, Rice weevils, Saw-toothed grain beetles, Spider beetles and Tobacco moths. Close windows and doors and shut off ventilating systems. Use a fogger or vaporizer adjusted to deliver an aerosol spray (no droplets over 50 microns in diameter and 80% less than 30 microns). Apply at the rate of 1 ounce per 1000 cubic feet of space. Direct the spray toward the ceiling and upper corners of the area behind obstructions. To kill hornets and wasps, apply directly to nests in the evening when the insects have returned to nests. Keep the area closed for at least 15 minutes.

**Space and Contact Spray:** Use full strength or dilute as desired according to dilution table (see below) and apply through equipment that delivers a pin stream spray. To kill accessible, exposed stages of Ants, Cheese mites, Clover mites, Crickets, Earwigs, Roaches, Scorpions, Silverfish and Spiders, first direct pin stream spray in all cracks and crevices in woodwork, walls and floors; underneath sinks; behind pipes and in all places where these insects are known to seek shelter. Contact as many insects as possible. Directly spray all ant hills and trails. Then, shut all doors, windows and ventilating systems and proceed with space spraying directions as given above. Use a dosage rate of 1 ounce per 1000 cubic feet of space; or if diluted 1-2 ounces per 1000 cubic feet of space. Keep the area closed for at least 15 minutes.

**Dilution:** Use a white mineral oil conforming to 21 CFR § 121.2589(b) or an odorless light petroleum hydrocarbon conforming to 21 CFR § 121.1182, 40 CFR § 180.910 (Inert ingredients used pre- and post-harvest; exemptions from the requirement of a tolerance), and/or 40 CFR § 180.930 (Inert ingredients applied to animals; exemptions from the requirement of a tolerance). Combine oil and CSI PY-PBO 0.5-5 Fogging Concentrate [this product] as directed below. Mix well just prior to application.

Dilution Table

Desired Pyrethrin Percentage	Mixture Rate	Application Rate per 1000 Cubic Feet
0.3	3 parts concentrate to 2 parts oil	1-2 ounces
0.15	3 parts concentrate to 7 parts oil	1-2 ounces

**Spot Application:** With equipment designed for deep void Ultra Low Volume (ULV) applications, follow the manufacturer's recommendations for proper equipment setup and operating pressures. Place the tip of the applicator at or into the crack and crevice to be treated. Apply product in short bursts while keeping tip in position. Allow the air

stream to push insecticide deep into voids. Do not apply to the point of runoff or drip. Reapply once per day if retreatment is necessary.

**Linear Application Along Baseboards, Trim Moldings, Other Cracks, Crevices, Deep Voids, Etc.:** With equipment designed for deep void ULV application, move applicator tip along the crevice to be treated applying a constant burst of insecticide. Move the tip at a steady rate of approximately 1 foot per second. Do not apply to the point of runoff or drip. Reapply once per day if retreatment is necessary.

**Outdoor Use**

**Outdoor Ground Fogging Application:** Use to kill Flies, Gnats and Mosquitoes in open areas near buildings and in campgrounds. Use preferably at a time when temperature is cool (75°F or less) and the wind velocity is approximately 5 mph or less.

**Hand-Held Equipment:** When using ULV equipment, apply at the rate of 4 ounces per acre. Allow spray drift to penetrate foliage. Repeat application as required for control.

For wide-area community applications, see the **Wide-Area Mosquito Control** section for appropriate wide-area community application Directions for Use.

**For Use on Animals**

**Do Not Use on Cats or Dogs.** To protect horses and beef/dairy cattle from Gnats, Horn flies, Houseflies and Mosquitoes, apply a light mist sufficient to wet the tips of the hair. To control Deer flies, Horse flies and Stable flies on horses and beef/dairy cattle, apply 2 ounces per adult animal, sufficient to wet the hair but not to soak the hide.

**In Mushroom Processing**

In canning and packing plants, apply at a rate of 1 ounce to 2000 cubic feet of space.

[In addition to the sites listed on the front panel,] use CSI PY-PBO 0.5-5 Fogging Concentrate [this product] in the following sites:

**Indoors:**

- |                               |                              |                            |
|-------------------------------|------------------------------|----------------------------|
| Animal areas/quarters         | Dried fruit warehouses       | Hospices                   |
| Auditoriums                   | Drugstores                   | Industrial installations   |
| Bakeries                      | Dumpsters                    | Institutions               |
| Beverage plants               | Dwellings                    | Jails                      |
| Boats                         | Egg processing plants        | Laboratories               |
| Bottling plants               | Factories                    | Libraries                  |
| Brandy storage warehouses     | Flour mills                  | Livestock barns            |
| Buildings                     | Food handling establishments | Loafing sheds              |
| Buses                         | Food processing plants       | Locker rooms               |
| Cabins                        | Freight containers           | Mausoleums                 |
| Canneries                     | Fruit packing sheds          | Meat packing plants        |
| Cattle barns                  | Garbage cans                 | Milk rooms                 |
| Churches                      | Garbage compactors           | Mills                      |
| Closets                       | Goat houses                  | Missions                   |
| Condominiums                  | Grain elevators              | Mobile homes               |
| Communication centers         | Grain mills                  | Museums                    |
| Correctional facilities       | Grain handling equipment     | Mushroom processing plants |
| Dairy/livestock barns         | Granaries                    | Nursing homes              |
| Dried fruit processing plants | Homes                        | Offices                    |
| Drains                        | Horse stables/barns          | Office buildings           |

Passenger rail cars  
Peanut processing plants  
Peanut storage warehouses  
Planes  
Poultry houses  
Poultry processing plants  
Prisons  
Public buildings  
Rabbit processing plants  
Rabbit houses  
Railroad cars  
Recreational vehicles  
Research animal areas  
Restaurants  
Restrooms

Rice mills  
Sewers  
Shade houses  
Ships  
Ships holds  
Stables  
Stable bins  
Stored food in multi-walled,  
paper or cloth bags  
Stored seed warehouses  
Stores  
Supermarkets  
Swine houses  
Textile mills/warehouses  
Theaters

Tobacco plants  
Tobacco warehouses  
Townhouses  
Trains  
Transportation equipment  
Trucks  
Truck trailers  
Utilities  
Utility rooms  
Voids (attics, walls, ceilings)  
Warehouses  
Wineries  
Wine storage warehouses  
Zoos

**CSI PY-PBO 0.5-5 Fogging Concentrate [This product] is effective against [kills] the following insects when used according to label directions:**

Almond moths  
American black flour beetles  
Angoumois grain moths  
Ants  
Aphids  
Barn flies  
Bean weevils  
Bedbugs  
Bees  
Black carpet beetles  
Black flies  
Black fungus beetles  
Blow flies  
Bottle flies  
Broadhorned flour beetles  
Broadnosed grain weevils  
Brown dog ticks  
Brown spider beetles  
Cabbage loopers  
Cabbage worms  
Carpet beetles  
Catorama beetles  
Centipedes  
Cereal beetles  
Cheese mites  
Cheese skippers  
Chiggers  
Chocolate moths

Chrysanthemum leaf miners  
Cigarette beetles  
Clothes moths  
Clover mites  
~~Cockroaches~~  
Cocoa bean moths  
Coffee bean weevils  
Confused flour beetles  
Corn sap beetles  
Crickets  
Dark mealworms  
Deer flies  
Depressed flour beetles  
Dermestid beetles  
Dried fruit beetles  
Drugstore beetles  
Earwigs  
European grain moths  
Face flies  
~~Fire ants~~  
Firebrats  
Flat grain beetles  
Fleas  
Flies  
Foreign grain beetles  
Fruit flies  
Fungus beetles  
Fungus gnats

Gnats  
Grain mites  
Granary weevils  
Grasshoppers  
Ground beetles  
Hairy fungus beetles  
Hairy spider beetles  
Hide beetles  
Horn flies  
Hornets  
Horse flies  
~~House flies~~  
Indian meal moths  
Khapra beetles  
Large black flour beetles  
Larger grain borers  
Lesser grain borers  
Lesser mealworms  
Longheaded flour beetles  
Maize weevils  
Meal moths  
Mealy bugs  
Mediterranean moths  
Merchants grain beetles  
Mexican grain beetles  
Millipedes  
Mites  
Mosquitoes

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Murmidius beetles	Scorpions	Stable flies
Mushroom flies	Sheep ticks	Thrips
Palmetto bugs	Silverfish	<del>Wants</del>
Pill bugs	Skipper flies	Tobacco moths
Pink scavenger caterpillars	Slenderhorned flour beetles	Trogoderma beetles
Red flour beetles	Smalleyed flour beetles	Two-banded beetles
Red horned grain beetles	Sowbugs	Vegetable leaf miners
Red spider mits	Spider beetles	Vinegar flies
Rice moths	Spider beetles	Wasps
Rice weevils	Spider mites	Waterbugs
Roaches	<del>Spider</del>	White marked spider beetles
Rusty grain beetles	Spinose ear ticks	Yellow jackets
Saw-toothed grain beetles	Squarnecked grain beetles	Yellow mealworms

**Wide-Area Mosquito Control**

For wide-area community applications by ground or aerial equipment, ultra low volume (ULV) sprays or fogs.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**Restrictions and Precautions**

**For Wide-Area Mosquito Adulticide Applications**

For use by Federal, state, tribal or local government officials responsible for public health or vector control, or by persons certified in the appropriate category or otherwise authorized by the state or tribal lead pesticide regulatory agency to perform adult mosquito control applications, or by persons under their direct supervision.

- Apply this product only as specified on the label.
- Except when applying as a wide-area mosquito adulticide, do not enter or allow others to enter until vapors, mists and aerosols have dispersed, and the treated area has been thoroughly ventilated.
- Except when applying this product as a wide-area mosquito adulticide, do not apply this product in a way that will contact workers or other persons, either directly or through drift.
- Except when applying this product as a wide-area mosquito adulticide, on protected handlers may be in the area during application.
- Do not use in outdoor residential misting systems.

**Outdoor Use-Mosquito Control  
Use at 0.1% through 0.5% Rates**

**Outdoor Ground Fogging Application:** Use to kill mosquitoes in open areas near buildings and in campgrounds. Use preferably at a time when temperature is cool (75°F or less) and the wind velocity is approximately 5 mph or less.

**Dilution:** Use a white mineral oil conforming to 21 CFR § 178.3620(b); or an odorless light petroleum hydrocarbon conforming to 21 CFR § 172.882 or 40 CFR § 180.910 (Inert ingredients used pre and post-harvest; exemptions from the requirement of a tolerance); or 40 CFR § 180.930 (Inert ingredients applied to animals; exemptions from the requirement of a tolerance). Combine oil and CPI PY-PBO 0.5-5 Fogging Concentrate [this product] as directed below and mix well just prior to application.

Desired Pyrethrins Percentage	Dilution Rate	Fluid Ounces of Diluted Product Delivers 0.0025 Pound Pyrethrins Per Acre
0.5%	1 part concentrate to 1 part oil	19.4
0.3%	6 parts concentrate to 7 parts oil	32.2
0.25%	1 part concentrate to 4 parts oil	38.8
0.15%	6 parts concentrate to 17 parts oil	64.4
0.1%	1 part concentrate to 9 parts oil	97

Use diluted CPI PY-PBO 0.5-5 Fogging Concentrate [product] for mosquito control programs involving residential, industrial, recreational and agricultural areas as well as swamps, marshes, overgrown waste areas, roadsides and pastures where adult mosquitoes occur. This product's dilution may be used over agricultural crops. For best results, apply when temperature is at least 50°F and when meteorological conditions create a temperature inversion with wind speed greater than 1 mph. Apply so the wind will carry the insecticidal fog into the area being treated. Do not apply more than 0.2 pound [lb.] pyrethrin per acre per year and 2 pounds [lbs.] piperonyl butoxide per acre per year in any treated area. More frequent treatments may be made to prevent or control a threat to public and/or animal health determined by a state, tribal or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes, the occurrence of mosquito-borne disease in animal or human populations or specifically approved by the state or tribe during a natural disaster recovery effort.

**Ground-Based Application:** To kill adult mosquitoes and biting flies, apply up to 0.0025 pound of Pyrethrins per acre. Spray equipment must be adjusted so that the volume median diameter (VMD) is 5 to 30 microns ( $5\mu\text{m} \leq D_v \leq 30\mu\text{m}$ ) and that 90% of the spray is contained in droplets smaller than 40 microns ( $D_v \leq 40\mu\text{m}$ ). Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated. ~~Applying a nozzle height of no less than 100 feet above ground or canopy in a fixed-wing aircraft or a height of no less than 75 feet above the ground or canopy for a rotary-wing aircraft.~~

**Truck-Mounted ULV Application:** Apply at the rate of up to 0.0025 pound per acre while the machine is traveling 10 mph. Position the nozzle approximately 30° above the horizontal off the side of the truck bed. The delivery rate and truck speed may be varied provided the application rate is 0.0025 pound of Pyrethrins per acre (use a 300-foot swath width for acreage calculations). When using truck mounted ULD equipment, spray at a dosage rate of up to 138 ounces per minute (0.1%) or up to 27.6 ounces per minute (0.5%) from a location up-wind of the areas where insects are to be killed. Keep speed of vehicle to 5 to 20 mph. Figure application travel path for a coverage of a 300-foot swath. Apply no more than 0.0025 pound per acre per day.

**Flow Rate for Maximum Delivery  
 300-Foot Swaths**

Vehicle Speed	Desired Pyrethrins Percentage	Desired Pyrethrins Percentage
	Ounces per Minute	Ounces per Minute
	0.1%	0.5%
5 mph	138	27.6
10 mph	69	13.8
20 mph	34.5	6.9

**Hand-held Equipment or Backpack:** When using such equipment, apply at the rate of up to 8 undiluted ounces per acre in a 30-foot swath. Allow spray drift to penetrate dense foliage. When used in cold aerosol generators, mechanical/electronic foggers or misting equipment that produce a fog with the majority of droplets in the 5-50 micron

range, dilute this product with light mineral oil (specific gravity of approximately 0.8 at 60°F; boiling point: 500-840°F). An N.F. [National Formulary (N.F.)] grade oil is preferred.

~~**Aerial Application (Fixed Wing and Helicopter):** To kill adult mosquitoes and biting flies, apply up to 0.0025 pound of Pyrethrins per acre with equipment designed and operated to produce a ULV spray application. Spray equipment must be adjusted so that the volume mean diameter produced is less than 60 (Dv 0.5-60 µm) and that 90% of the spray is contained in droplets smaller than 100 microns (Dv 0.9 < 100 µm). The effects of flight speed and for non-rotary nozzles, nozzle angle on the droplet size spectrum must be considered. Directions from the equipment manufacturer or vendor, pesticide registrant or test facility using a wind tunnel and laser-based measurement instruments must be used to adjust equipment to product acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.~~

*(For product in rigid, non-refillable containers less than or equal to 5 gallons;)*

**Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in original container in a cool, dry place inaccessible to children and pets. Store away from food and pet food. **Pesticide Disposal:** Wastes resulting from the use of this product must be disposed on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling if available. If recycling is not available dispose of container in a sanitary landfill or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

*(For product in rigid, non-refillable containers greater than 5 gallons;)*

**Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in original container in a cool, dry place inaccessible to children and pets. Store away from food and pet food. **Pesticide Disposal:** Wastes resulting from the use of this product must be disposed on site or at an approved waste disposal facility. **Container Handling:** Non-refillable container; do not reuse or refill this container. Triple rinse (or equivalent) container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Offer for recycling, if available; or reconditioning, if appropriate; or puncture and dispose of in a sanitary landfill; or by incineration.

*(For product in rigid, refillable containers;)*

**Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in original container in a cool, dry place inaccessible to children and pets. Store away from food and pet food. **Pesticide Disposal:** Wastes resulting from the use of this product must be disposed on site or at an approved waste disposal facility. **Container Handling:** Refillable container; refill this container only with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before refilling is the responsibility of the refiller; cleaning before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water, then vigorously agitate or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection

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system. Repeat this rinsing procedure 2 more times, then offer for recycling, if available, or reconditioning, if appropriate; or puncture and dispose of in a sanitary landfill; or by incineration.

{Per PR Notice 2007-4 the batch code/lot number will appear on the label or container.}

**WARRANTY STATEMENT**

Control Solutions, Inc. warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label when used only in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Control Solutions, Inc. To the extent consistent with applicable law, Control Solutions, Inc. shall in no event be liable for consequential, special, or indirect damages resulting from the use or handling of this product; all such risks shall be assumed by the Buyer. In addition to the foregoing, no purchaser of this product (other than an end user) shall be entitled to any reimbursement for any loss suffered as a result of any suspension or cancellation of the registration for this product by the U.S. Environmental Protection Agency. Except as expressly provided herein and to the extent consistent with applicable law, Control Solutions, Inc. makes no warranties, guarantees, or representations of any kind, either express or implied, or by usage of trade, statutory or otherwise, with regard to the product sold, including, but not limited to merchantability, fitness for a particular purpose and/or use or eligibility of the product for any particular trade usage. The exclusive remedy of any buyer or user of this product for any and all losses, injuries, or damage resulting from or in any way arising from the use, handling, or application of this product, whether in contract, warranty, tort, negligence, strict liability, or otherwise, shall be damages not exceeding the purchase price paid for this product or, at Control Solutions, Inc. election, the replacement of this product.

[Manufactured for:] [Distributed by:]

**Control Solutions, Inc.**

5903 Genoa-Red Bluff  
Pasadena, TX 77507-1041

*{Marketing Claims}*

Add marketing statements, graphics, etc. here.

For use in edible product areas of official establishments operating under the ~~food~~ meat, poultry, shell egg grading and egg products inspection programs and in other food processing plants.

For Use In and Around Animal areas/quarters, Bakeries, Cattle barns, Dairy/livestock barns, Egg processing plants, Flood handling establishments, Food processing plants, Homes, Industrial installations, Meat packing plants, Milk rooms, Nursing homes, Office buildings, Poultry houses, Poultry processing plants and Restaurants

For use on {select from sites listed in Directions for Use}

Kills {select from insects listed on label}

Kills Ants, Angoumois grain moths, ~~Crickets, Flies~~ Granary weevils, Indian meal moths, Mites, Mosquitoes, Rice weevils and ~~Spiders~~

*{End of Marketing Claims}*

[ ] Denotes alternate/optional language

{ } Denotes language that does not appear on the market labeling